

Appl. No.: 10/675,011  
Filed: September 30, 2003  
Amdt. Dated November 2, 2007

Amendments to the Claims:

Claims 1-81 (Canceled)

82. (Currently amended) ~~The A stably transformed duckweed plant culture or duckweed nodule culture of claim 44 wherein said plant culture or nodule culture is transformed with one or more nucleotide sequences comprising a coding sequence for a biologically active polypeptide operably linked to a nucleotide sequence comprising a 5' leader sequence wherein said 5' leader sequence has the nucleotide sequence set forth in SEQ ID NO:16.~~

83. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 82, wherein said duckweed plant culture or duckweed nodule culture is selected from the group consisting of the genus *Spirodela*, genus *Wolffia*, genus *Wolfiella*, and genus *Lemna*.

84. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 83, wherein said duckweed plant culture or duckweed nodule culture is selected from the group consisting of *Lemna minor*, *Lemna miniscula*, *Lemna aequinoctialis*, and *Lemna gibba*.

Claims 85-86 (Canceled)

87. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 82, wherein said biologically active polypeptide is selected from the group consisting of human growth hormone, human  $\alpha$ -interferon, and an antibody.

88. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 87, wherein said polypeptide is an antibody and said antibody

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is expressed from one or more nucleotide sequences comprising a coding sequence for a chain of the antibody.

89. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 88, wherein said duckweed plant culture or duckweed nodule culture expresses and assembles the heavy chain and light chain of the antibody.

90. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 88, wherein said antibody is a Fab' fragment.

91. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 88, wherein said antibody is a monoclonal antibody.

92. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 88, wherein said antibody is a human antibody.

93. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 88, wherein said coding sequence for said chain of said antibody is operably linked to a coding sequence for a signal peptide that directs secretion of said chain of said antibody, wherein said signal peptide has the sequence set forth in SEQ ID NO:6.

94. (Previously presented) The stably transformed duckweed plant culture or duckweed nodule culture of claim 93, wherein said coding sequence for the signal peptide comprises the nucleotide sequence set forth in SEQ ID NO:3.

Claims 95-96 (Canceled)